



PowerBalance gen2

RC461B LED40S/940 PSD W60L60 VPC PIP

PowerBalance gen2, 28 W, 600x600 mm, VPC, 4000 lm, 4000 K, CRI≥90, DALI, UGR16

When it comes to lighting an office space with LED luminaires, people are usually willing to invest in sustainability provided the investment pays back. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. PowerBalance gen2 is Philips' most energy-efficient office-norm-compliant LED luminaire. It more than halves energy costs compared to a T5 solution, and the light source has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market. The gen2 architecture enables a range of highly versatile modular and semi-modular luminaires. These luminaires can be easily mounted in ceilings with exposed T-bar and concealed T-bar, as well as plaster ceiling types.

Warnings and Safety

- The product is IP20 and as such is not protected against water ingress, so we strongly recommend that the environment in which the luminaire is to be installed is suitably checked
- If the above advice is not taken and the luminaires are subject to water ingress, Philips/Signify cannot guarantee safe use and the product warranty will become void

Product data

General Information		Lighting Technology	
Lamp family code	LED40S [LED module, system flux 4000 lm]	Value ladder	Specification
Light source replaceable	No	CE mark	Yes
Number of gear units	Unit	Warranty period	5 years
Gear	-	Flammability mark	For mounting on normally flammable surfaces
Driver included	Yes	ENEC mark	ENEC mark
Product family code	RC461B [PowerBalance recessed]	Glow-wire test	Temperature 650 °C, duration 30 s

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EU RoHS compliant	Yes
Light Technical	
Luminous Flux	4,000 lm
Saturated Red (R9)	>50
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	143 lm/W
Colour rendering index (CRI)	≥90
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Number of light sources	1
Beam angle of light source	120 degree(s)
Light source colour	940 neutral white
Optic type	Wide beam office-compliant
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Unified Glare Rating (CEN)	16
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	19.4 A
Inrush time	0.230 ms
Power Consumption	28 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type B	30
UL Type	Type B – bypass the ballast
Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
Mechanical and Housing	
Housing material	Steel
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	-
Fixation material	-
Housing Colour	White
Optical cover/lens finish	-
Overall length	597 mm

Overall width	597 mm
Overall height	86 mm
Dimensions (height x width x depth)	86 x 597 x 597 mm
Compatible ceiling or ceiling installation accessory type	Visible profile ceiling version
Approval and Application	
Ingress protection code	IP20/40 [Finger-protected, Emitting surface]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	Lighting for circularity Lighting for wellbeing
Protection class IEC	Safety class I
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%
Over Time Performance (IEC Compliant)	
Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance at median useful life* 50,000 h	L90
Lumen maintenance at median useful life* 100,000 h	L75
Application Conditions	
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	No
Product Data	
Order product name	RC461B LED40S/940 PSD W60L60 VPC PIP
Full product name	RC461B LED40S/940 PSD W60L60 VPC PIP
Full EOC	871869996456600
Order code	96456600
Material no. (12 NC)	910505100250
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699964566
Numerator – packs per outer box	1
EAN/UPC – Case	8718699964566

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Dimensional drawing

